SEQUENCE LISTING



<110> Parham, Christi L. Moore, Kevin W. Murgolo, Nicholas J. Bazan, J. Fernando

<120> Human Receptor Proteins; Related Reagents and Methods

<130> DX0804

<140> 09/037,394 <141> 1998-03-09

<160> 6

<170> PatentIn Ver. 2.0

<210> 1

<211> 1381

<212> DNA

<213> primate

<220>

<221> CDS

<222> (132)..(1064)

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<220>

<221> misc_feature

<222> n at position 567 and 573

<223> n may be A, C, T, or G; translated amino acid depends on genetic code

<400> 1

tegacecaeg egteegeget gegacteaga ceteagetee aacatatgea ttetgaagaa 60

agatggctga gatggacaga atgctttatt ttggaaagaa acaatgttct aggtcaaact 120

gagtctacca a atg cag act ttc aca atg gtt cta gaa gaa atc tgg aca Met Gln Thr Phe Thr Met Val Leu Glu Glu Ile Trp Thr

agt ctt ttc atg tgg ttt ttc tac gca ttg att cca tgt ttg ctc aca Ser Leu Phe Met Trp Phe Phe Tyr Ala Leu Ile Pro Cys Leu Leu Thr 15

gat gaa gtg gcc att ctg cct gcc cct cag aac ctc tct gta ctc tca 266 Asp Glu Val Ala Ile Leu Pro Ala Pro Gln Asn Leu Ser Val Leu Ser 30 35 40

acc aac atg aag cat ctc ttg atg tgg agc cca gtg atc gcg cct gga Thr Asn Met Lys His Leu Leu Met Trp Ser Pro Val Ile Ala Pro Gly 50 60

gaa aca gtg tac tat tct gtc gaa tac cag ggg gag tac gag agc ctg Glu Thr Val Tyr Tyr Ser Val Glu Tyr Gln Gly Glu Tyr Glu Ser Leu 65

tac Tyr	acg Thr	agc Ser 80	cac His	atc Ile	tgg Trp	atc Ile	ccc Pro 85	agc Ser	agc Ser	tgg Trp	tgc Cys	tca Ser 90	ctc Leu	act Thr	gaa Glu	410	
ggt Gly	cct Pro 95	gag Glu	tgt Cys	gat Asp	gtc Val	act Thr 100	gat Asp	gac Asp	atc Ile	acg Thr	gcc Ala 105	act Thr	gtg Val	cca Pro	tac Tyr	458	
						aca Thr										506	
						aat Asn										554	
ggg Gly	atg Met	gag G l u	atc Ile 145	ncc Xaa	aaa Lys	nat Xaa	ggc Gly	ttc Phe 150	cac His	ctg Leu	gtt Val	att Ile	gag Glu 155	ctg Leu	gag Glu	602	
gac Asp	ctg Leu	ggg Gly 160	ccc Pro	cag Gln	ttt Phe	gag Glu	ttc Phe 165	ctt Leu	gtg Val	gcc Ala	tac Tyr	tgg Trp 170	asg Xaa	agg Arg	gag Glu	650	
cct Pro	ggt Gly 175	gcc Ala	gag Glu	gaa Glu	His	gtc Val 180	aaa Lys	atg Met	gtg Val	agg Arg	agt Ser 185	Gly ggg	ggt Gly	att Ile	cca Pro	698	
						gag Glu										746	
						att Ile										794	
gaa Glu	tgt Cys	gtg Val	gar Xaa 225	gtg Val	caa Gln	gga Gly	gag Glu	gcc Ala 230	att Ile	ccc Pro	ctg Leu	gta Val	ctg Leu 235	gcc Ala	ctg Leu	842	
ttt Phe	gcc Ala	ttt Phe 240	gtt Val	ggc Gly	ttc Phe	atg Met	ctg Leu 245	atc Ile	ctt Leu	gtg Val	gtc Val	gtg Val 250	cca Pro	ctg Leu	ttc Phe	890	
gtc Val	tgg Trp 255	aaa Lys	atg Met	ggc Gly	cgg Arg	ctg Leu 260	ctc Leu	cag Gln	tac Tyr	tcc Ser	tgt Cys 265	tgc Cys	ccc Pro	gtg Val	gtg Val	938	
gtc Val 270	ctc Leu	cca Pro	gac Asp	acc Thr	ttg Leu 275	aaa Lys	ata Ile	acc Thr	aat Asn	tca Ser 280	ccc Pro	cag Gln	aag Lys	tta Leu	atc Ile 285	986	
agc Ser	tgc Cys	aga Arg	agg Arg	gag Glu 290	gag Glu	gtg Val	gat Asp	gcc Ala	tgt Cys 295	gcc Ala	acg Thr	gct Ala	gtg Val	atg Met 300	tct Ser	1034	
cct	gag	gaa	ctc	ctc	agg	gcc	tgg	atc	tca	tagg	tttg	cg g	aagg	gccc	a	1084	

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Pro Glu Glu Leu Leu Arg Ala Trp Ile Ser 305 310

ggtgaagccg agaacctggt ctgcatgaca tggaaaccat gaggggacaa gttgtgtttc 1144
tgttttccgc cacggacaag ggatgagaga agtaggaaga gcctgttgtc tacaagtcta 1204
gaagcaacca tcagaggcag ggtggtttgt ckaacagaac aaytgactga ggytakrggg 1264
gwtgtgacct ctagactktg ggstkscayt tgcwtggytg agcaaccctg ggaaaagtga 1324
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<210> 2

<211> 311

<212> PRT

<213> primate

<220>

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<222> Xaa at residues 146, 148, 171, 214 and 225

<223> Xaa depends on corresponding codon

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Met Gln Thr Phe Thr Met Val Leu Glu Glu Ile Trp Thr Ser Leu Phe 1 5 10 15

Met Trp Phe Phe Tyr Ala Leu Ile Pro Cys Leu Leu Thr Asp Glu Val 20 25 30

Ala Ile Leu Pro Ala Pro Gln Asn Leu Ser Val Leu Ser Thr Asn Met 35 40 45

Lys His Leu Leu Met Trp Ser Pro Val Ile Ala Pro Gly Glu Thr Val 50 55 60

Tyr Tyr Ser Val Glu Tyr Gln Gly Glu Tyr Glu Ser Leu Tyr Thr Ser 65 70 75 80

His Ile Trp Ile Pro Ser Ser Trp Cys Ser Leu Thr Glu Gly Pro Glu 85 90 95

Cys Asp Val Thr Asp Asp Ile Thr Ala Thr Val Pro Tyr Asn Leu Arg 100 105 110

Val Arg Ala Thr Leu Gly Ser Gln Thr Ser Ala Trp Ser Ile Leu Lys 115 120 125

His Pro Phe Asn Arg Asn Ser Thr Ile Leu Thr Arg Pro Gly Met Glu 130 135 140

Ile Xaa Lys Xaa Gly Phe His Leu Val Ile Glu Leu Glu Asp Leu Gly 145 150 155 160

Pro Gln Phe Glu Phe Leu Val Ala Tyr Trp Xaa Arg Glu Pro Gly Ala 165 170 175

Glu Glu His Val Lys Met Val Arg Ser Gly Gly Ile Pro Val His Leu 180 185 Glu Thr Met Glu Pro Gly Ala Ala Tyr Cys Val Lys Ala Gln Thr Phe 200 Val Lys Ala Ile Gly Xaa Tyr Ser Ala Phe Ser Gln Thr Glu Cys Val 210 215 Xaa Val Gln Gly Glu Ala Ile Pro Leu Val Leu Ala Leu Phe Ala Phe Val Gly Phe Met Leu Ile Leu Val Val Pro Leu Phe Val Trp Lys 245 250 Met Gly Arg Leu Leu Gln Tyr Ser Cys Cys Pro Val Val Leu Pro 260 265 Asp Thr Leu Lys Ile Thr Asn Ser Pro Gln Lys Leu Ile Ser Cys Arg 280 Arg Glu Glu Val Asp Ala Cys Ala Thr Ala Val Met Ser Pro Glu Glu 295 Leu Leu Arg Ala Trp Ile Ser 305 <210> 3 <211> 1244 <212> DNA <213> primate <220> <221> CDS <222> (2)..(694) <400> 3 c cgg gtc gac cca cgc gtc cgc ctg gtt tcc ccc tgg ctg aca gtg cct 49 Arg Val Asp Pro Arg Val Arg Leu Val Ser Pro Trp Leu Thr Val Pro 10 tgg ttc ctg tcc tgt tgg aat gtt acc att ggg cct cct gag agc atc 97 Trp Phe Leu Ser Cys Trp Asn Val Thr Ile Gly Pro Pro Glu Ser Ile 20 25 tgg gtg acg ccg gga gaa gcc tcc ctc atc atc agg ttc tcc tct ccc 145 Trp Val Thr Pro Gly Glu Ala Ser Leu Ile Ile Arg Phe Ser Ser Pro 35 ttc gac gtc cct ccc aac ctg ggc tat ttc cag tac tat gtc cat tay 193 Phe Asp Val Pro Pro Asn Leu Gly Tyr Phe Gln Tyr Tyr Val His Xaa 50 55 tgg gaa aag gcg gga atc caa aag gtt aaa ggt cct ttc aag agc aac 241 Trp Glu Lys Ala Gly Ile Gln Lys Val Lys Gly Pro Phe Lys Ser Asn

<210> 4 <211> 231 <212> PRT <213> primate <220> <221> misc_feature <222> Xaa at residue 64 <223> Xaa translated amino acid depends on corresponding codon <400> 4 Arg Val Asp Pro Arg Val Arg Leu Val Ser Pro Trp Leu Thr Val Pro Trp Phe Leu Ser Cys Trp Asn Val Thr Ile Gly Pro Pro Glu Ser Ile Trp Val Thr Pro Gly Glu Ala Ser Leu Ile Ile Arg Phe Ser Ser Pro Phe Asp Val Pro Pro Asn Leu Gly Tyr Phe Gln Tyr Tyr Val His Xaa Trp Glu Lys Ala Gly Ile Gln Lys Val Lys Gly Pro Phe Lys Ser Asn Ser Ile Val Leu Asp Gly Leu Arg Pro Leu Arg Glu Tyr Cys Leu Gln Val Lys Ala His Leu Phe Arg Thr Ser Cys Asn Thr Ser Arg Pro Gly 100 105 Arg Leu Ser Asn Ile Thr Cys Tyr Glu Thr Met Met Asp Ala Thr Thr Lys Leu Gln Gln Val Ile Leu Ile Ala Val Gly Val Phe Leu Ser Leu 135 140 Ala Ala Leu Ala Gly Gly Cys Phe Phe Leu Val Leu Arg Tyr Lys Gly Leu Val Lys Tyr Trp Phe His Ser Pro Pro Ser Ile Pro Ser Gln Ile 170 Glu Glu Tyr Leu Lys Asp Pro Ser Gln Pro Ile Leu Glu Ala Leu Asp 180

Lys Asp Thr Ser Pro Thr Asp Asp Ala Trp Asp Leu Val Ser Val Val
195 200 205

Ala Phe Pro Ala Lys Glu Gln Glu Asp Val Pro Gln Ser Thr Leu Thr

215

210

Gln Asn Ser Gly Ala Val Cys 225 230

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<21.1> 337

<212> PRT

<213> primate

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Pro Gln His Pro Lys Ile Arg Leu Tyr Asn Ala Glu Gln Val Leu Ser 35 40 45

Trp Glu Pro Val Ala Leu Ser Asn Ser Thr Arg Pro Val Val Tyr Arg
50 55 60

Val Gln Phe Lys Tyr Thr Asp Ser Lys Trp Phe Thr Ala Asp Ile Met 65 70 75 80

Ser Ile Gly Val Asn Cys Thr Gln Ile Thr Ala Thr Glu Cys Asp Phe 85 90 95

Thr Ala Ala Ser Pro Ser Ala Gly Phe Pro Met Asp Phe Asn Val Thr
100 105 110

Leu Arg Leu Arg Ala Glu Leu Gly Ala Leu His Ser Ala Trp Val Thr 115 120 125

Met Pro Trp Phe Gln His Tyr Arg Asn Val Thr Val Gly Pro Pro Glu 130 135 140

Asn Ile Glu Val Thr Pro Gly Glu Gly Ser Leu Ile Ile Arg Phe Ser 145 150 155 160

Ser Pro Phe Asp Ile Ala Asp Thr Ser Thr Ala Phe Phe Cys Tyr Tyr 165 170 175

Val His Tyr Trp Glu Lys Gly Gly Ile Gln Gln Val Lys Gly Pro Phe
180 185 190

Arg Ser Asn Ser Ile Ser Leu Asp Asn Leu Lys Pro Ser Arg Val Tyr 195 200 205

Cys Leu Gln Val Gln Ala Gln Leu Leu Trp Asn Lys Ser Asn Ile Phe 210 215 220

Arg Val Gly His Leu Ser Asn Ile Ser Cys Tyr Glu Thr Met Ala Asp 225 230 235 240

Ala Ser Thr Glu Leu Gln Gln Val Ile Leu Ile Ser Val Gly Thr Phe 245 250 255 Ser Leu Leu Ser Val Leu Ala Gly Ala Cys Phe Phe Leu Val Leu Lys 260 265 270

Tyr Arg Gly Leu Ile Lys Tyr Trp Phe His Thr Pro Pro Ser Ile Pro 275 280 285

Leu Gln Ile Glu Glu Tyr Leu Lys Asp Pro Thr Gln Pro Ile Leu Glu 290 295 300

Ala Leu Asp Lys Asp Ser Ser Pro Lys Asp Asp Val Trp Asp Ser Val 305 310 315 320

Ser Ile Ile Ser Phe Pro Glu Lys Glu Gln Glu Asp Val Leu Gln Thr 325 330 335

Leu

<210> 6

<211> 325

<212> PRT

<213> primate

<400> 6

Met Ala Trp Ser Leu Gly Ser Trp Leu Gly Gly Cys Leu Leu Val Ser 1 5 10 15

Ala Leu Gly Met Val Pro Pro Pro Glu Asn Val Arg Met Asn Ser Val 20 25 30

Asn Phe Lys Asn Ile Leu Gln Trp Glu Ser Pro Ala Phe Ala Lys Gly
35 40 45

Asn Leu Thr Phe Thr Ala Gln Tyr Leu Ser Tyr Arg Ile Phe Gln Asp 50 55 60

Lys Cys Met Asn Thr Thr Leu Thr Glu Cys Asp Phe Ser Ser Leu Ser 65 70 75 80

Lys Tyr Gly Asp His Thr Leu Arg Val Arg Ala Glu Phe Ala Asp Glu
85 90 95

His Ser Asp Trp Val Asn Ile Thr Phe Cys Pro Val Asp Asp Thr Ile
100 105 110

Ile Gly Pro Pro Gly Met Gln Val Glu Val Leu Ala Asp Ser Leu His 115 120 125

Met Arg Phe Leu Ala Pro Lys Ile Glu Asn Glu Tyr Glu Thr Trp Thr 130 135 140

Met Lys Asn Val Tyr Asn Ser Trp Thr Tyr Asn Val Gln Tyr Trp Lys 145 150 155 160

Asn Gly Thr Asp Glu Lys Phe Gln Ile Thr Pro Gln Tyr Asp Phe Glu

165 170 175

Val Leu Arg Asn Leu Glu Pro Trp Thr Thr Tyr Cys Val Gln Val Arg 180 , 185 Gly Phe Leu Pro Asp Arg Asn Lys Ala Gly Glu Trp Ser Glu Pro Val 195 Cys Glu Gln Thr Thr His Asp Glu Thr Val Pro Ser Trp Met Val Ala 215 Val Ile Leu Met Ala Ser Val Phe Met Val Cys Leu Ala Leu Leu Gly 225 230 235 Cys Phe Ser Leu Leu Trp Cys Val Tyr Lys Lys Thr Lys Tyr Ala Phe Ser Pro Arg Asn Ser Leu Pro Gln His Leu Lys Glu Phe Leu Gly His 265 Pro His His Asn Thr Leu Leu Phe Phe Ser Phe Pro Leu Ser Asp Glu 275 Asn Asp Val Phe Asp Lys Leu Ser Val Ile Ala Glu Asp Ser Glu Ser 295 Gly Lys Gln Asn Pro Gly Asp Ser Cys Ser Leu Gly Thr Pro Pro Gly 310 315

Gln Gly Pro Gln Ser 325